Lumache

Release 0.1

Graziella

Jan 22, 2022

CONTENTS

Lumache (/lu'make/) is a Python library for cooks and food lovers that creates recipes mixing random ingredients. It pulls data from the Open Food Facts database and offers a *simple* and *intuitive* API.

Check out the *Usage* section for further information, including how to *Installation* the project.

Lumache has its documentation hosted on Read the Docs.

Note: This project is under active development.

CHAPTER

ONE

CONTENTS

1.1 Usage

1.1.1 Installation

To use Lumache, first install it using pip:

```
(.venv) $ pip install lumache
```

1.1.2 Creating recipes

To retrieve a list of random ingredients, you can use the `lumache.get_random_ingredients()` function:

class lumache.**Experiment**

…

Variables

- **test** (*str*) – This is a test class variable
- **pulses** (*List[str]*) – List of names to lookup in the pulse library.
- **pulse_library** (*Dict[str, List[complex]]*) – Dictionary which maps names to complex pulse envelopes.
- **config** (*Dict[str, Any]*) –
- **clock_period** (*float*) –

lumache.**get_random_ingredients**(*kind=None*)

Run-length encode a vector of complex numbers.

e.g.

```
>>> v = np.asarray([0+1j,1+2j,1j,1j])
>>> iqx_rle(v)
[(1j,), ((1+2j),), (1j, 2)]
```

Parameters **vec** (*list[complex] or ArrayLike*) – Input vector to encode.

Returns Run-length encoded vector.

Return type list[tuple[complex, int]]

lumache.**iqx_rld**(*rle_seq: List[Union[Tuple[Any], Tuple[Any, int]]]*) → List[Any]
Decode a run-length encoded sequence of complex numbers. See also *iqx_rld()*.

This is an example of a code block:

```
from rich import print
print("Hello World!")
```

Note: This is note text

it has indentation rules

Warning: This is warning

it has identation rules

Parameters **rle_seq** (*list[tuple[complex, int]]*) – Input sequence to decode.

Returns Original sequence.

Return type list[complex]

The `kind` parameter should be either `"meat"`, `"fish"`, or `"veggies"`. Otherwise, *lumache.get_random_ingredients()* will raise an exception.

exception lumache.**InvalidKindError**
Raised if the kind is invalid.

For example:

```
>>> import lumache
>>> lumache.get_random_ingredients()
['shells', 'gorgonzola', 'parsley']
```

1.2 API

lumache	Lumache - Python library for cooks and food lovers.

1.2.1 lumache

Lumache - Python library for cooks and food lovers.

Functions

get_random_ingredients([kind])	Run-length encode a vector of complex numbers.
iqx_rld(rle_seq)	Decode a run-length encoded sequence of complex numbers.

Classes

Experiment()	...

Exceptions

InvalidKindError	Raised if the kind is invalid.

PYTHON MODULE INDEX

INDEX